

# POLYMORPHISMS IN THE BETA-2-ADRENERGIC RECEPTOR GENE

CCCCGGTTCA	AGAGATTCTC	CTGTCTCAGC	CTCCCGAGTA	GCTGGGACTA	
CAGGTACGTG	CCACCACACC	TGGCTAATTT	TTGTATTTTT	AGTAGAGACA	100
AGAGTTACAC	CATATTGGCC	AGGATCTTTT	GCTTTCTATA	GCTTCAAAAT	
GTTCTTAATG	TTAAGACATT	CTTAATACTC	TGAACCATAT	GAATTTGCCA	200
TTTTGGTAAG	TCACAGACGC	CAGATGGTGG	CAATTTTACA	TGGCACAACC	
CGAAAGATTA	ACAAACTATC	CAGCAGATGA	AAGGATTTTT	TTTAGTTTCA	300
TTGGGTTTAC	TGAAGAAATT	GTTTGAATTC	TCATTGCATC	TCCAGTTCAA	
CAGATAATGA	GTGAGTGATG	CCACACTCTC	AAGAGTTAAA	AACAAAACAA	400
CAAAAAAATT	AAAACAAAAG	CACACAACCT	TCTCTCTCTG	TCCCAAAATA	
CATACTTGCA	TACCCCCGCT	CCAGATAAAA	TCCAAAGGGT	AAAACGTGCT	500
TCATGCCTGC	AAATTCCTAA	GGAGGGCACC	TAAAGTACTT	GACAGCGAGT	
GTGCTGAGGA	AATCGGCAGC	TGTTGAAGTC	ACCTCCTGTG	CTCTTGCCAA	600
A					
ATGTTTGAAA	GGGAATACAC	TGGGTTACCG	GGTGTATGTT	GGGAGGGGAG	
CATTATCAGT	GCTCGGGTGA	GGCAAGTTCT	GAGTACCCAG	ATGGAGACAT	700
CCGTGTCTGT	GTCGCTCTGG	ATGCCTCCAA	GCCAGCGTGT	GTTTACTTTC	
TGTGTGTGTC	ACCATGTCTT	TGTGCTTCTG	GGTGCTTCTG	TGTTTGTTTC	800
TGGCCGCGTT	TCTGTGTGG	ACAGGGGTGA	CTTTGTGCCG	GATGGCTTCT	
GTGTGAGAGC	GCGCGCGAGT	GTGCATGTCG	GTGAGCTGGG	AGGGTGTGTC	900
A					
TCAGTGTCTA	TGGCTGTGGT	TCGGTATAAG	TCTGAGCATG	TCTGCCAGGG	
A					
TGTATTTGTG	CCTGTATGTG	CGTGCCTCGG	TGGGCACTCT	CGTTTCCTTC	1000
CGAATGTGGG	GCAGTGCCGG	TGTGCTGCCC	TCTGCCTTGA	GACCTCAAGC	
CGCGCAGGCG	CCCAGGGCAG	GCAGGTAGCG	GCCACAGAAG	AGCCAAAAGC	1100
TCCCCGGTTG	GCTGGTAAGG	ACACCACCTC	CAGCTTTAGC	CCTCTGGGGC	
C					
CAGCCAGGGT	AGCCGGGAAG	CAGTGGTGGC	CCGCCCTCCA	GGGAGCAGTT	1200
T					
GGGCCCCGCC	CGGGCCAGCC	CCAGGAGAAG	GAGGGCGAGG	GGAGGGGAGG	
T					
GAAAGGGGAG	GAGTGCCTCG	CCCCTTCGCG	GCTGCCGGCG	TGCCATTGGC	1300
CGAAAGTTCC	CGTACGTCAC	GGCGAGGGCA	GTTCCCCCTAA	AGTCCTGTGC	
ACATAACGGG	CAGAACGCAC	TGCGAAGCGG	CTTCTTCAGA	GCACGGGCTG	1400
GAAGTGGCAG	GCACCGCGAG	CCCCTAGCAC	CCGACAAGCT	GAGTGTGCAG	
GACGAGTCCC	CACCACACCC	ACACCACAGC	CGCTGAATGA	GGCTTCCAGG	1500
CGTCCGCTCG	CGGCCCGCAG	AGCCCCGCCG	TGGGTCCGCC	CGCTGAGGCG	
T					

Figure 1A

CCCCCAGCCA GTGCGCTTAC CTGCCAGACT GCGCGCCATG GGGCAAGCCC 1600  
C  
GGAACGGCAG CGCCTTCTTG CTGGCACCCAT ATAGAAGCCA TGGCCCGGAC  
G  
CAGGACGTCA CGCAGCAAAG GGACGAGGTG TGGGTGGTGG GCATGGGCAT 1700  
G  
CGTCATGTCT CTCATCGTCC TGGCCATCGT CTTTCGCAAT GTGCTCGTCA  
TCACAGCCAT TGGCAAGTTC GAGCGTCTGC AGACCGTCAG CAAGTACTTC 1800  
ATCAGTTTAC TTGGCCTGTGC TGATCTGGTG ATGGGGCTGG CAGTGGTGG  
A  
CTTTCGGGGC GCCCATATTC TTATGAAAT GTGGACTTMT GCCAAGTTCT 1900  
CGTCCGAGTT TTGCACTTCC ATTGATGTGC TGTGGTTCAG GCCCAGCATTT  
GAGACCTGT GCGTGATCGC AGTGGATCGC TACTTTGCCA TTACTTCAGC 2000  
TTTCAAGTAC CAGACCTGCG TGACCAAGAA TAAGGCCCCG GTGATCATTC  
TGATCGTGTG CATTTGTCTA GGCCTTACCT CTTCTTTGCC CATTGAGATG 2100  
T  
CACTGGTACC GGGCCACCCAT CCAGGAAGCC ATCAACTGCT ATGCCAATGA  
A  
GACCTGCTGT CACTTCTTCA CGAACCAGGC CTATGCCATT GCGCTCTTCCA 2200  
TGGTGTCCCT CTACGTTCGC CTGGTGATCA TGGTCTTCGT CTACTCCAGG  
GTCTTTCAGG AGGCCAAAAG GCAGCTCCAG AAGATTGAGA AATCTGAGGG 2300  
CCGCTTCCAT GTCCAGAACCC TTAGCCAGGT GGAGCAGGAT GGGCCGACCG  
GGCATCGACT GCGCAGATCT TCCAAGTTCT GCTTGAAGGA GCACAAAGCC 2400  
CTCAAGACGT TAGGCATCAT CATGGGCACT TTCACGCTCT GCTGGCTGGC  
CTTCTTCATC GTTAACATTG TGCATGTGAT CCAGGATAAC CTCATCCGTA 2500  
AGGAAGTTTA CATCTCTCTA AATTGGATAG CCTATCTCAA TCTGTCTTTC  
AATCCCCCTA TCTACTGCCG GAGCCAGAT TTCAGGATTG CTTTCCAGCA 2600  
GCTTCTGTGC CTGCGCAGGT CTTCTTTCAA GGCCTATGGG AATGGCTACT  
CCAGCAACCC GAGACACAGC GAGCAGAGTC CATATCACCT GGAACAGGAG 2700  
AAAGAAATA AACTGCTGTG TGAAGACCTC CCAGCCACCG AAGACTTTGT  
GGGCCATCAA GGTACTGTGC CTAGCCATAA CATGATTCA CAAGGGAGGA 2800  
ATTGTAGTAC AAATGACTCA CTGCTCTAAA GCAGTTTTTC TACTTTTAAA  
GACCCCCCCC CCCCCAACAG AACACTAAAC AGACTATTTA ACTTGAGGGT 2900  
AATAAACTTA GAATAAAATT GTAAAAATTG TATAGAGATA TGCAGAAGGA  
AGGGCATCCT TCTGCCTTTT TTATTTTTTT AAGCTGTAAA AAGAGAGAAA 3000  
ACTTATTTGA GTGATTATTT GTTATTTGTA CAGTTCAGTT CCTCTTTGCA  
TGGAATTTGT AAGTTTATGT CTAAAGAGCT TTAGTCCTAG AGGACCTGAG 3100  
TCTGCTATAT TTTCATGACT TTTCCATGTA TCTACCTCAC TATTCAAGTA  
TTAGGGGTAA TATATTGCTG CTGGTAATTT GTATCTGAAG GAGATTTTCC 3200  
TTCCTACACC CTTGGACTTG AGGATTTTGA GTATCTCGGA CCTTTCAGCT

Figure 1B

GTGAACATGG ACTCTTCCCC CACTCCTCTT ATTTGCTCAC ACGGGGTATT 3300  
TTAGGCAGGG ATTTGAGGAG CAGCTTCAGT TGTTTTCCCG AGCAAAGGTC  
TAAAGTTTAC AGTAAATAAA ATGTTTGACC ATGCCTTCAT TGCACCTGTT 3400  
TGTCCAAAAC CCCTTGACTG GAGTGCTGTT GCCTCCCCCA CTGGAAACCG  
C 3451

163163501633

Figure 1C

# ISOFORMS OF BETA-2-ADRENERGIC RECEPTOR (ADRB2)

MGQPGNGSAF	LLAPNRSHAP	DHDVTQQRDE	VWVVGMGIVM	SLIVLAIVFG	
	G	E			
NVLVITAIK	FERLQVTNY	FITSLACADL	VMGLAVVPFG	AAHILMKMWT	100
FGNFWCEFWT	SIDVLCVTAS	IETLCVIAVD	RYFAITSPFK	YQSLLTKNKA	
RVIILMVWIV	SGLTSFLPIQ	MHWYRATHQE	AINCYANETC	CDFFTNQAYA	200
	I				
IASSIVSFYV	PLVIMVFVYS	RVFQEAKRQL	QKIDKSEGRF	HVQNLSQVEQ	
DGRTGHGLRR	SSKFCLKEHK	ALKTLGIIMG	TFTLCWLPFF	IVNIVHVIQD	300
NLIRKEVYIL	LNWIGYVNSG	FNPLIYCRSP	DFRIAFQELL	CLRRSSLKAY	
GNGYSSNGNT	GEQSGYHVEQ	EKENKLLCED	LPGTEDFVGH	QGTVPDNDID	400
SQGRNCSTND	SLL				413

FIGURE 2

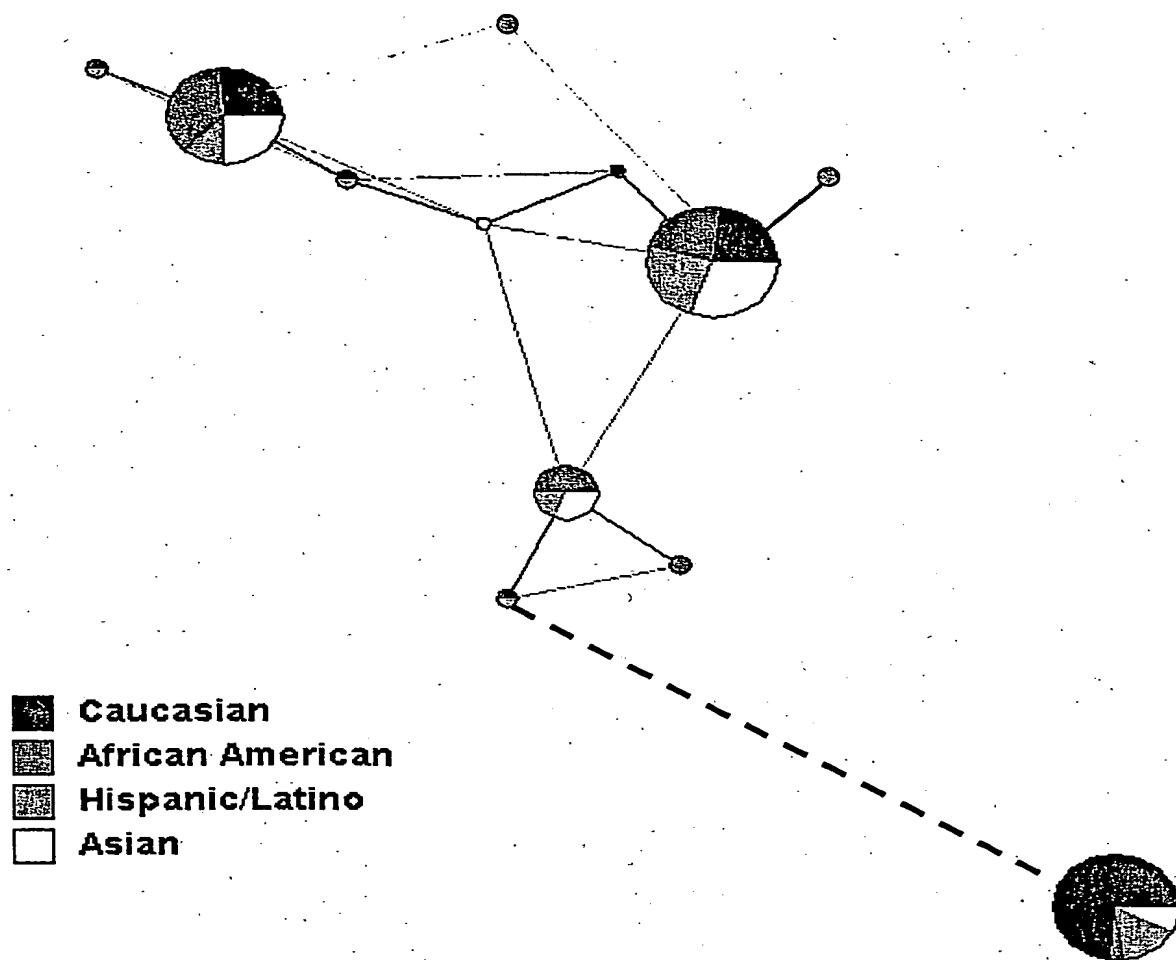


Figure 3

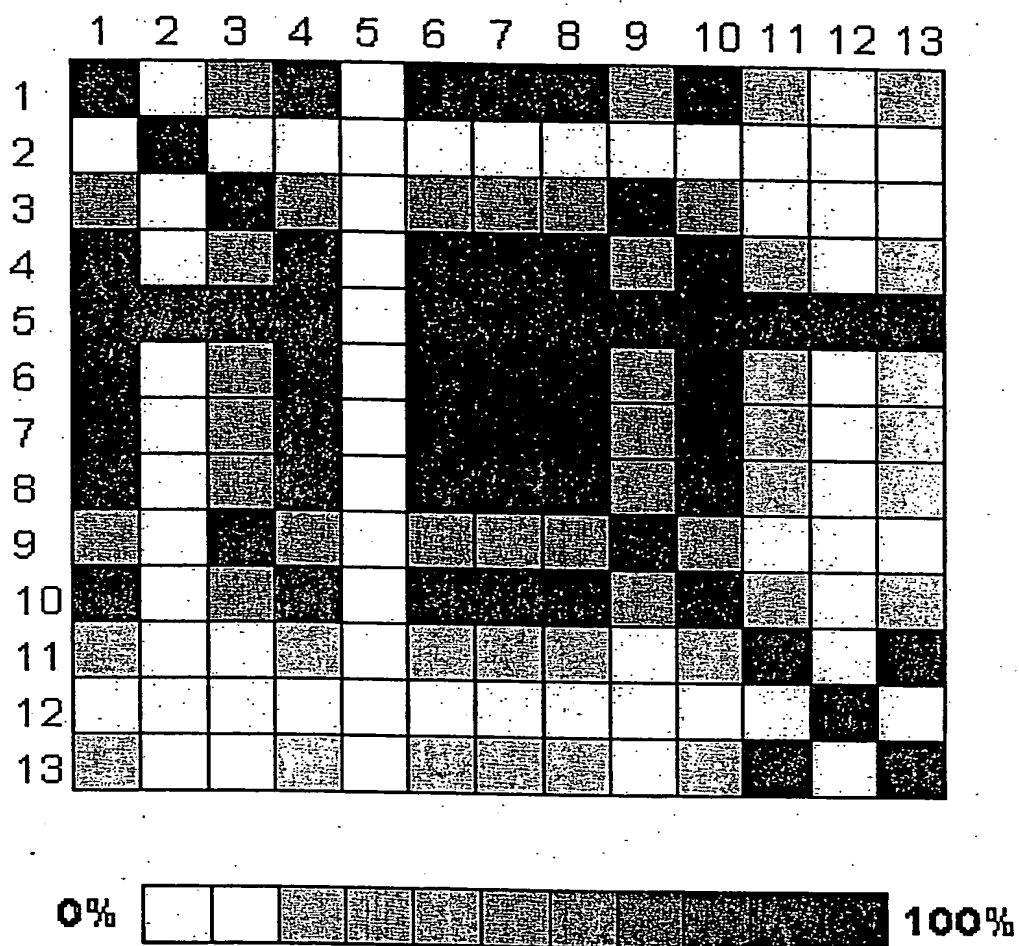


Figure 4

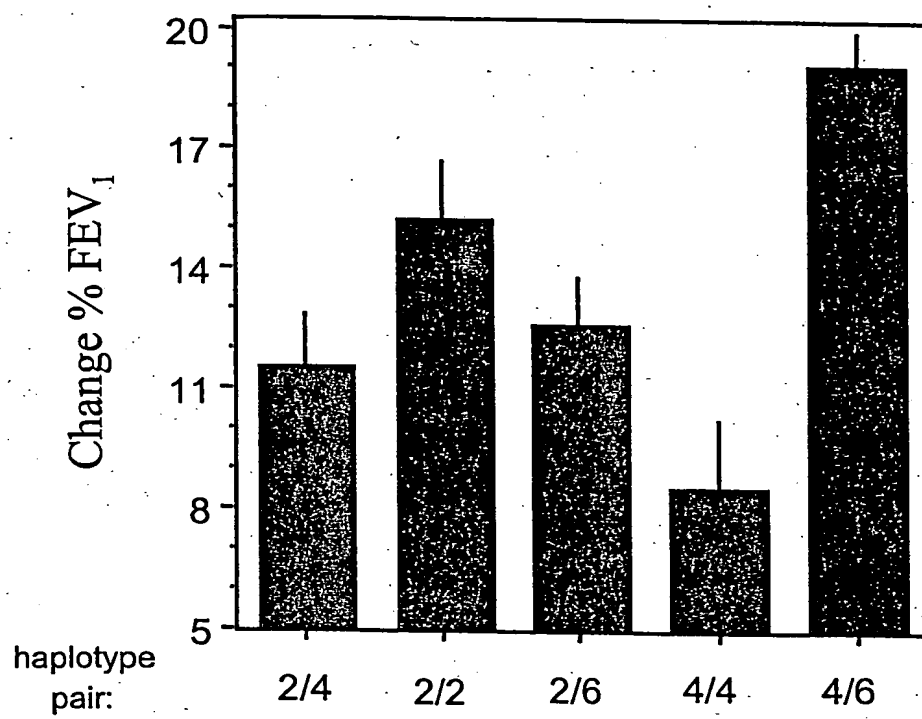


Figure 5

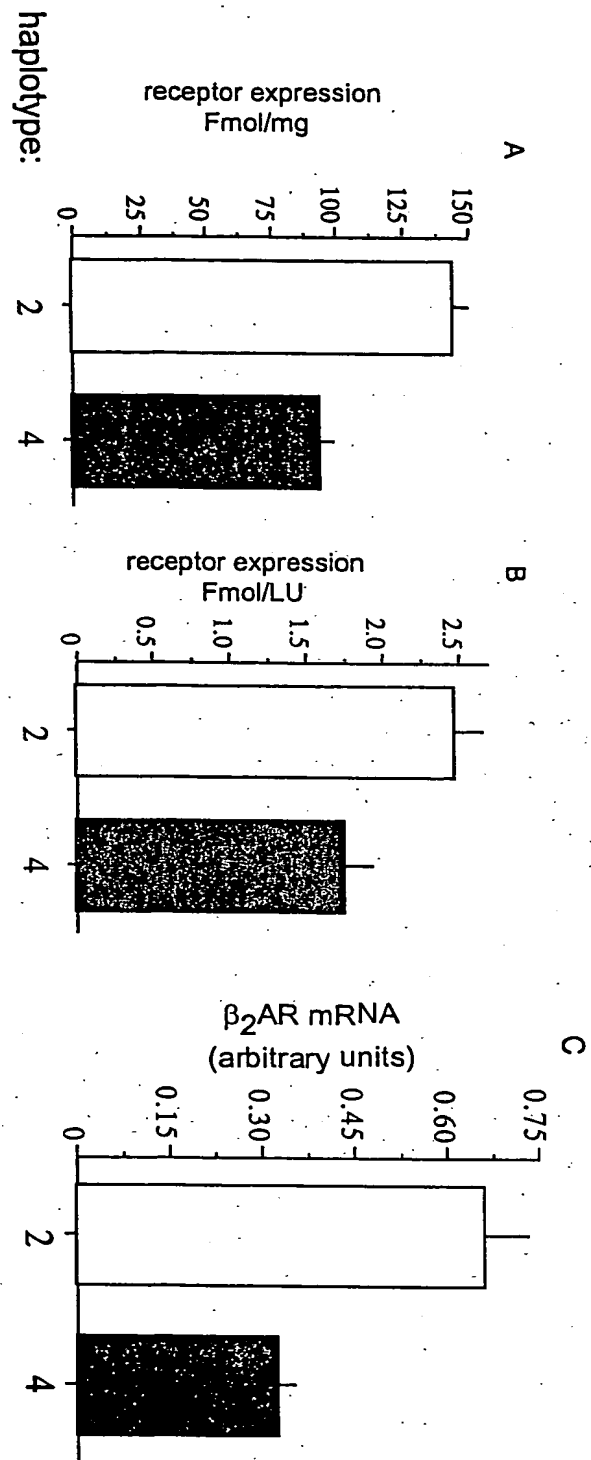


Figure 6